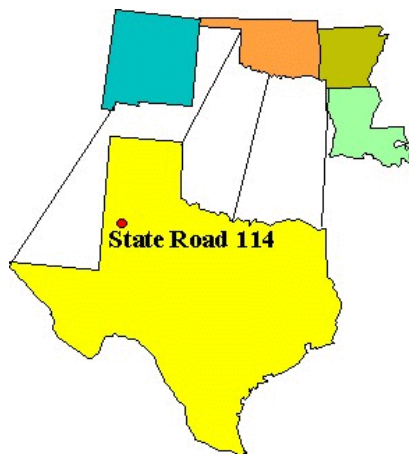


STATE ROAD 114 GROUND WATER
PLUME SUPERFUND SITE
Levelland, Texas

EPA Region 6
EPA ID# TX0001093152
Site ID: 0605177
State Congressional District: 19
Fact Sheet Updated: May 4, 2004



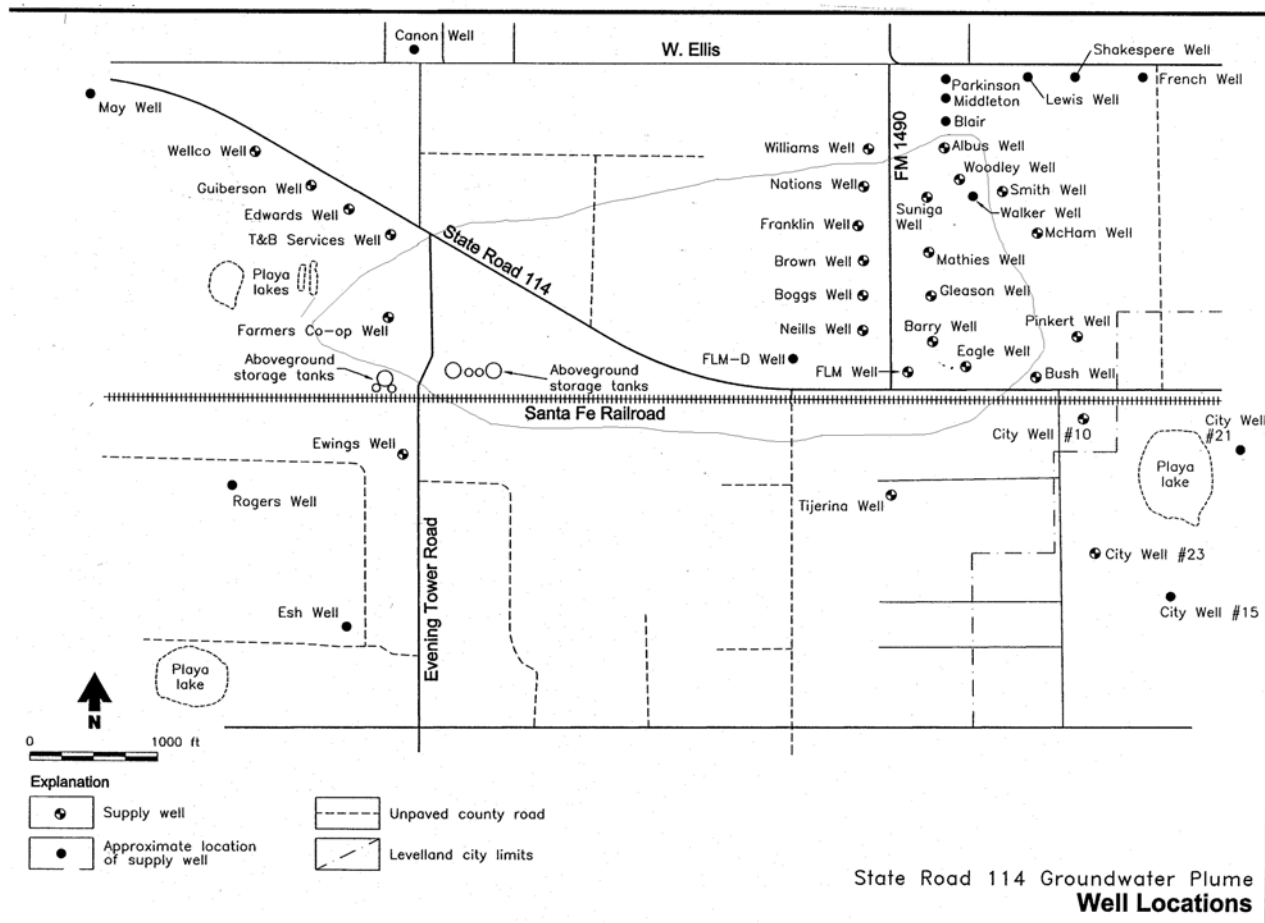
SITE DESCRIPTION

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- Location:** The State Road 114 Ground Water Plume site is an area of ground water contamination underlying the western boundary of the City of Levelland, Hockley County, Texas, approximately 31 miles due west of Lubbock.
- Setting:** Contaminated ground water in the Ogallala Aquifer extends from west to east (in the direction of ground water flow) along West State Highway 114 for approximately 1 ½ miles from the former Motor Fuels Corporation (MFC) property to the City of Levelland municipal park. The ground water plume is approximately a mile wide, bounded roughly by Ellis Road to the north and Houston Avenue to the south. Analyses of samples collected during site investigations to date indicate maximum benzene concentrations of xx and maximum 1,2-dichloroethane DCA concentrations as high as 182 micrograms per liter (ug/l) and vanadium concentrations as high as 490 ug/l. EPA has established a maximum contaminant level (MCL) for 1,2-DCA in drinking water of 5 ug/l. No MCL currently exists for vanadium; however, the Superfund Removal Action Level for vanadium is 250 ug/l.
- Population:** The City of Levelland draws approximately one-third of its drinking water from the Ogallala Aquifer and obtains the rest of its water supply from surface water sources. The city operates 17 public water supply wells, all of which are located down gradient and within 4 miles of the center of the ground water plume. The city's ground water wells serve 4,200 people of a total population of 14,000. Although 1,2-DCA contamination has not been detected in any of the active public wells to date, elevated levels of vanadium contamination have been documented in two of the city wells. A third public well was closed during the 1960's due to taste and odor problems. Contamination by 1,2-DCA has been detected in this well. Given their proximity and location in the immediate migration path of the ground water plume, all of the city's active public water supply wells are considered potentially susceptible to contamination.

WASTES AND VOLUMES

The Ogallala Aquifer is the principal source of drinking water for residents in Hockley County. Site investigations conducted by the Texas Natural Resource Conservation Commission (TNRCC) and the EPA to date have identified 15 wells contaminated with 1,2-DCA and vanadium, one well with 1,2-DCA only, and 12 wells with vanadium only. The Texas Department of Health has advised owners of the impacted wells that use of the well water is unsafe. EPA is partnering with the TNRCC to address the hazards posed by the use of this water and has initiated a program to install and maintain ground water filtrations systems for these wells. Filtration units have been installed on 14 of the 16 wells contaminated with 1,2-DCA, including the Farmers Co-op Elevator Association well. The remaining two wells are not used for drinking water. Filtration systems have also been installed at three businesses where elevated levels of vanadium or metals contamination have impacted ground water quality.

SITE MAP



NATIONAL PRIORITIES LIST

NPL Inclusion Proposal Date: July 19, 1999
NPL Inclusion Final Date: October 22, 1999
NPL Deletion Proposal Date: n/a
NPL Final Deletion Date: n/a

SITE HISTORY

1. June 1990: contamination by 1,2 DCA was first detected by the Texas Department of Health in a sample collected from the Farmers Co-op Elevator Association well.
2. 1995-1998: Investigations by the TNRCC and EPA identified impacts from 1,2-DCA, vanadium, and/or metals contamination in 28 ground water wells in the area, including : 19 residential wells, five business wells, three City of Levelland public water supply wells, and one irrigation well.

PRESENT STATUS AND ISSUES

- The TCEQ is the lead agency for conducting the site investigation and feasibility study.
- Site investigation field work began in July 2002 with the installation of the first phase of monitoring well installation.
- The Phase II field investigation was completed between June and December 2003 with additional monitoring wells to complete the nature and extent of contamination in the aquifer, soil gas sampling to evaluate other potential source areas at the site, and aquifer tests to provide information on the aquifer characteristics for the evaluation of potential remedies.
- A third round of ground water sampling was completed in April 2004.
- The site investigation has confirmed the presence of an extensive 1,2-DCA and benzene plume originating from the site.
- All field activities are projected for completion in 2004. The remaining field activities include soil sampling and characterization of the playa contaminated with refinery sludge.

RECORD OF DECISION

The Record of Decision (ROD) will be issued after the RI/FS and Proposed Plan are developed and reviewed and public comment is received. The projected ROD date is September 2005.

COMMUNITY INVOLVEMENT

Site Mailing List:
EPA Open Houses: To be announced
Site Status Fact Sheets: 9/99, 10/99
EPA Formal Meetings: None
Community Relations Plan: In Development

Constituency Interest: Nearby residents concerned about ground water issues and are supportive of State and EPA efforts.
Site Repository: Hockley County Library, 802 Houston Street, Suite 108,
Levelland, Texas 79336 (806) 894-6750

TECHNICAL ASSISTANCE GRANT ---

Availability Notice: 11/99
Letters of Intent Received: None
Final Application Received: None
Grant Award: None

SITE CONTACTS ---

- **EPA Remedial Project Manager:** Vincent Malott 214-665-8313 or 1-800-533-3508
- **EPA Site Attorney:** Joseph E. Compton 214-665-8506 or 1-800-533-3508
- **EPA Community Involvement:** Vincent Malott 214-665-8313 or 1-800-533-3508
- **EPA Contractor:** N/A
- **EPA Region 6 Ombudsman:** Arnold Ondarza, 303-312-6777
- **TNRCC Remedial Project Manager:** Diane Poteet, 512-239-2502
- **TNRCC Community Relations:** John Flores, 512-239-5674